



# ***STIC Search Report***

## ***EIC 2100***

**STIC Database Tracking Number: 156820**

**TO: Thomas Pham  
Location: RND 5a28  
Art Unit : 2121  
Friday, June 17, 2005**

**Case Serial Number: 09/829524**

**From: Carol Wong  
Location: EIC 2100  
RND 4A30  
Phone: 272-3513**

**carol.wong@uspto.gov**

### **Search Notes**

Dear Examiner Pham,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,  
Carol

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200538

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Set	Items	Description
S1	32	MULTISERVER?
S2	168722	SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER?
S3	13	MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER?
S4	2054	(PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3
S5	1847	(PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3
S6	5937	(NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3
S7	83	(TRIO OR THIRD OR 3RD) (1W)S2:S3
S8	138	(PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3
S9	1598	EMAIL? OR EMESAG? OR ECORRESPOND?
S10	30778	(E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?)
S11	459	CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?)
S12	207360	MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE?
S13	4798373	CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ?
S14	1191929	FORMULAT? OR PREPAR??? ? OR PREPARATION
S15	1350657	SOURCE? ? OR AUTHOR? OR ORIGINAT? OR INITIAT?
S16	2831419	PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ?
S17	5535294	EACH OR ANY OR ANYONE OR ALL OR EVERY OR EVERYONE OR BOTH
S18	20678	S9:S12(3N)S13:S16
S19	3066	S17(2W)S1:S3
S20	5	S19(10N)S18
S21	1	S20 AND S4:S8
S22	0	S1(10N)S18
S23	0	S1 AND S18
S24	39	S19 AND S18
S25	8	S24 AND S4:S8
S26	1169	S17(5N)S18
S27	0	S1 AND S26
S28	9	S26 AND S4:S8
S29	46	S20:S25 OR S28
S30	46	IDPAT (sorted in duplicate/non-duplicate order)
S31	46	IDPAT (primary/non-duplicate records only)

31/9/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015765931 \*\*Image available\*\*

WPI Acc No: 2003-828133/200377

XRPX Acc No: N03-661483

**System integrating multimedia communication transmission and message  
management - for integrating the message management communication task of  
a link network and a communication network**

Patent Assignee: HUANG G (HUAN-I)

Inventor: HUANG G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
TW 535444	A	20030601	TW 2001115580	A	20010627	200377 B

Priority Applications (No Type Date): TW 2001115580 A 20010627

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
TW 535444	A		H04Q-003/00	

Abstract (Basic): TW 535444 A

NOVELTY - The invention discloses a system integrating multimedia communication transmission and message management, which is used to integrate the message management communication task of a link network and a communication network. The system comprises a management computer used to input message and management data being forwarded to a main server. The main server decides a message transmission method based on management data and forwards the message through a link network to **all** district **servers**. **All** district **servers** decide to send message by e-mail, fax, telephone, mobile phone or mobile short message through at least one of link network and communication network to a link network subscriber or communication network subscriber. The invention can target at huge subscribers requesting different message transmission requirements added with customized **creation** and **message** delivery to significantly reduce the time cost and increase the service quality.

DwgNo 1/1

Title Terms: SYSTEM; INTEGRATE; COMMUNICATE; TRANSMISSION; MESSAGE; MANAGEMENT; INTEGRATE; MESSAGE; MANAGEMENT; COMMUNICATE; TASK; LINK; NETWORK; COMMUNICATE; NETWORK

Derwent Class: T01; W01; W02

International Patent Class (Main): H04Q-003/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-N01D1; W01-B05A1A; W01-C05B2; W02-C03C1A

**31/9/19 (Item 19 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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014132333 \*\*Image available\*\*

WPI Acc No: 2001-616544/200171

XPX Acc No: N01-459838

**Outgoing advertising messages load balancing method in client-server architecture, involves sending rich media electronic message with message ID to different target selected from list of potential recipients**

Patent Assignee: MINDARROW SYSTEMS INC (MIND-N)

Inventor: DUNCAN M; MCEWAN R

Number of Countries: 090 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200173573	A1	20011004	WO 2000US7996	A	20000324	200171 B
AU 200040312	A	20011008	AU 200040312	A	20000324	200208
			WO 2000US7996	A	20000324	

Priority Applications (No Type Date): WO 2000US7996 A 20000324

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 200173573	A1	E	16 G06F-015/16	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW  
AU 200040312 A G06F-015/16 Based on patent WO 200173573

Abstract (Basic): WO 200173573 A1

NOVELTY - A **mail** network having an **initiator** (10) and **alternative servers** (42,44,52,54,56,62,64) is provided. The initiator creates a campaign core having a list of potential recipients and a commercial **message**. Each **server** **composes** a rich media **electronic message** having commercial message and sends the message with message ID to a different target selected from the list. The message is tracked using the message ID.

USE - In client-server architecture for load balancing outgoing advertisement.

ADVANTAGE - Prevents network connecting the initiator to the server, from carrying excess traffic, since the initiator sends request to assemble and mail' rather than complete messages.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of a network.

Initiator (10)

**Alternative servers** (42,44,52,54,56,62,64)

pp; 16 DwgNo 1/2

Title Terms: OUTGOING; ADVERTISE; MESSAGE; LOAD; BALANCE; METHOD; CLIENT; SERVE; ARCHITECTURE; SEND; RICH; MEDIUM; ELECTRONIC; MESSAGE; MESSAGE; ID ; TARGET; SELECT; LIST; POTENTIAL; RECIPIENT

Derwent Class: T01

International Patent Class (Main): G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07C1; T01-H07C5S; T01-J05A; T01-J05B4P; T01-M02A1

31/9/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013978556 \*\*Image available\*\*

WPI Acc No: 2001-462770/200150

**Channel linking method using multi - server in push system**

Patent Assignee: KOREA TELECOM (KOTE-N); KT CORP (KTKT-N)

Inventor: JANG J Y; KIM Y H; YOEN S H; CHANG J Y; YEON S H

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001004954	A	20010115	KR 9925728	A	19990630	200150 B
KR 333741	B	20020425	KR 9925728	A	19990630	200270

Priority Applications (No Type Date): KR 9925728 A 19990630

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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KR 2001004954	A	1	G06F-015/00	
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KR 333741	B		G06F-015/00	Previous Publ. patent KR 2001004954
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Abstract (Basic): KR 2001004954 A

NOVELTY - A channel linking method using a **multi - server** in a push system is provided to make users get same information, keeping the same channel for **each server** in distributed **multi - server** environment.

DETAILED DESCRIPTION - A channel linking method consists of three steps. At the first step, among independent **multi -push servers**, the push server that the channel was changed becomes the temporary master

push server, and other servers become temporary slave push servers. At the second step, the temporary master push server watches the **generated message** queues. At the third step, according to the result of the watch, the temporary master push server transmits the messages that remains in the message queue to the temporary slave push servers, and so, the channels between **multi -push servers** are linked.

pp; 1 DwgNo 1/10  
Title Terms: CHANNEL; LINK; METHOD; MULTI; SERVE; PUSH; SYSTEM  
Derwent Class: T01  
International Patent Class (Main): G06F-015/00  
File Segment: EPI  
Manual Codes (EPI/S-X): T01-J

**31/9/26 (Item 26 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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012697813 \*\*Image available\*\*  
WPI Acc No: 1999-503922/199942  
XRPX Acc No: N99-376733

**E-mail transfer system for E-mail management system - performs E-mail transfer between master file server on intranet and slave file server on internet**

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
JP 11219326 A 19990810 JP 9822418 A 19980203 199942 B

Priority Applications (No Type Date): JP 9822418 A 19980203  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 11219326 A 16 G06F-013/00

Abstract (Basic): JP 11219326 A

NOVELTY - The data communication between the intranet (2) and the internet (1) is performed through the fire wall (3). The transmission and reception of E-mail is carried out between the master file server (4) on the intranet and the slave file server (6) on the internet.

USE - For transfer of E-mail in E-mail management system.

ADVANTAGE - Enables storage of E-mail in identical classification state in file controller of master/slave file server. Enables reading of E-mail by user using usual network terminal equipment in intranet. Eliminates need for modification of identical content for **each server**. Enables **E - mail generation** by user on inner side or exterior of fire wall. Reduces communication path usage period to forward E-mail efficiently. Reduces memory capacity of slave file controller by avoiding need for storage of all information. Enables efficient utilization of network resources. Facilitates efficient accessing of slave file controller by reducing accessing period. Avoids decoding of E- mail even if it is accidentally received by other system. Improves safety by preventing decipherment of E-mail on network. Facilitates usage of mobile network terminal equipment by various persons by deleting information about E-mail. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of E-mail management system. (1) Internet; (2) Intranet; (3) Fire wall; (4) Master file server; (6) Slave file server.

Dwg.1/23  
Title Terms: MAIL; TRANSFER; SYSTEM; MAIL; MANAGEMENT; SYSTEM; PERFORMANCE;  
MAIL; TRANSFER; MASTER; FILE; SERVE; SLAVE; FILE; SERVE

Derwent Class: P85; T01; W01  
 International Patent Class (Main): G06F-013/00  
 International Patent Class (Additional): G09C-001/00; H04L-009/32;  
 H04L-012/54; H04L-012/58  
 File Segment: EPI; EngPI  
 Manual Codes (EPI/S-X): T01-H; W01-A03B; W01-A05B; W01-A06G2  
 ? t31/9/39

31/9/39 (Item 39 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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004478132  
 WPI Acc No: 1985-305010/198549  
 Related WPI Acc No: 1990-187474; 1990-187475; 1990-187476; 1990-187477;  
 1990-195737; 1990-232960  
 XRPX Acc No: N85-226798

**Local area network for digital data processing system - joins users and  
 sources using communications link with interface units each of which is  
 connected to several users**

Patent Assignee: DIGITAL EQUIP CORP (DIGI )  
 Inventor: DUFFY D; LAUCK A; MANN B; STRECKER W; DUFFY D J; LAUCK A J; LAUCK  
 A G; MANN B E; STRECKER W D  
 Number of Countries: 015 Number of Patents: 022  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 163577	A	19851204				198549	B
AU 8542661	A	19851205				198605	
FI 8502198	A	19851202				198611	
BR 8502706	A	19860212				198613	
JP 61056538	A	19860322	JP 85118662	A	19850531	198618	
US 4823122	A	19890418	US 8788063	A	19870824	198918	
CA 1257399	A	19890711				198932	
AU 8941416	A	19891221				199016	
AU 8941417	A	19891221				199016	
US 4975904	A	19901204	US 89433419	A	19891107	199051	
US 4975905	A	19901204	US 89412577	A	19890925	199051	
CA 1279933	C	19910205				199111	
US 5058108	A	19911015	US 89412576	A	19890925	199144	
EP 163577	B	19911211				199150	
DE 3584853	G	19920123				199205	
CA 1301941	C	19920526	CA 605259	A	19890710	199227	
			CA 615862	A	19900914		
AU 633510	B	19930204	AU 8542661	A	19850601	199312	
			AU 8941416	A	19890914		
AU 633511	B	19930204	AU 8542661	A	19850601	199312	
			AU 8941417	A	19890914		
JP 5063706	A	19930312	JP 85118662	A	19850531	199315	
			JP 9232437	A	19850531		
JP 8214003	A	19960820	JP 9232437	A	19850531	199643	
			JP 95281198	A	19850531		
US 5621734	A	19970415	US 84616553	A	19840601	199721	
			US 8727033	A	19870319		
			US 8788063	A	19870824		
			US 88178430	A	19880406		
			US 89338485	A	19890413		
			US 89412576	A	19890925		
			US 91724064	A	19910701		
			US 9331069	A	19930312		
			US 94225365	A	19940408		
US 5734659	A	19980331	US 84616553	A	19840601	199820	

US 8727033	A	19870319
US 8788063	A	19870824
US 88178430	A	19880406
US 89338485	A	19890413
US 89412576	A	19890925
US 91724064	A	19910701
US 9331069	A	19930312
US 94223245	A	19940401

Priority Applications (No Type Date): US 8788063 A 19870824; US 84616553 A 19840601; US 8727033 A 19870319; US 88177849 A 19880404; US 89433419 A 19891107; US 89412577 A 19890925; US 89412576 A 19890925; US 88178430 A 19880406; US 89338485 A 19890413; US 91724064 A 19910701; US 9331069 A 19930312; US 94225365 A 19940408; US 94223245 A 19940401

Cited Patents: Jnl.Ref; A3...8802; EP 160263; EP 81056; No-SR.Pub

#### Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 163577	A	E	49		
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Designated States (Regional): CH DE FR GB IT LI NL SE

US 4975904	A	23
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US 4975905	A	22
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US 5058108	A	24
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EP 163577	B
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Designated States (Regional): BE CH DE FR GB IT LI NL SE

CA 1301941	C	H04L-005/22	Div ex application CA 605259
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AU 633510	B	G06F-013/42	Div ex application AU 8542661
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Previous Publ. patent AU 8941416

AU 633511	B	G06F-015/16	Div ex application AU 8542661
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Previous Publ. patent AU 8941417

JP 5063706	A	H04L-012/28	Div ex application JP 85118662
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JP 8214003	A	21 H04L-012/28	Div ex application JP 9232437
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US 5621734	A	23 H04L-012/40	Cont of application US 84616553
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Div ex application US 8727033

Div ex application US 8788063

Cont of application US 88178430

Cont of application US 89338485

Div ex application US 89412576

Cont of application US 91724064

Cont of application US 9331069

Div ex patent US 4823122

Div ex patent US 5058108

US 5734659	A	22 H04J-003/00	Cont of application US 84616553
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Div ex application US 8727033

Div ex application US 8788063

Cont of application US 88178430

Cont of application US 89338485

Div ex application US 89412576

Cont of application US 91724064

Cont of application US 9331069

Div ex patent US 4823122

Div ex patent US 5058108

Abstract (Basic): EP 163577 A

The network includes **several** device **server** units each of which converts to a service user and a number of nodes connected to a service provider and communications link to effect communications between the nodes and the units. This enables users and provides to communicate. Each node includes a device for transmitting a service advertising message over the link to identify the services provided. Each sensor device unit includes an advertising message receiving device connected to the link for receiving the message. A service table device

establishes a service table including several entries each including a node field and a service field, identifying a node and a service provided by the service provider connected to the node.

A selection device is responsive to an operator requesting a service for using the service table to requested service.

USE - Electronic mail, word processing, accounting or data communications over telephone lines.

Dwg.0/8

Abstract (Equivalent): EP 380141 B

A local area network (10) for interconnecting service users (12) and service providers (14), including a plurality of device server units (24) each of which connects to a service user (12) and a plurality of nodes (34) each connected to a service provider (12) and a communications link (16) to effect transfer of messages between the nodes (34) and device server units (24) to enable said service users (12) and service providers (14) to communicate, **each** said device **server** units (24) including: timing means (92) for generating a timing signal at the end of a predetermined timing interval; data storage means (106) for accumulating data from said service users (12) for transmission to said service providers (14); data waiting flag means (86) connected to said data storage means (106) and having a set condition when data is stored in said data storage means and a reset condition; and message transmission means (60,70) connected to said communications link (16), said timing means (92), said data storage means (106) and said data waiting flag means (86) for transferring data from said data storage means (106) over said communication link (16) in response to the data waiting flag means (86) having a set condition if said timing means (92) has generated the timing signal; wherein each said node (34) includes node message transmission means (64,70) connected to said service providers (14) and said communications link (16) for transmitting messages to a device server unit (24) in response to the receipt of a message from said device server unit (24), characterised in that **each message originating** at **each** said node (34) includes a response requested flag field (R) having selected values, **each** said device **server** unit (24) further having message receiving means (60,70) for receiving messages, said message receiving means including means for setting data waiting flag means in response to the response requested flag field of a message having a predetermined value. (Dwg.1)e

EP 375664 B

A local area network for interconnecting service users (12) and service providers (14), including a plurality of device server units (24) each of which connects to a service user and a plurality of nodes (34), each connected to a service provider (14) and a communications link (16) to effect communications between the nodes (34) and device server (24) units to enable said service users (12) and service providers (14) to communicate, characterised by A. each node (34) including means for periodically transmitting a service advertising message (Fig. 2A) over said communications link (16) to identify the data processing services provided by the service providers (14) connected thereto, and B. **each device server** unit (24) including: i. advertising message receiving means connected to said communications link (16) for receiving said service advertising message; ii. service table means (Fig. 2B) for establishing a service table including a plurality of entries each including a node field which lists said plurality of nodes (34) and a service field which lists services provided by the service providers (14) connected to the node (34); and iii. selection means responsive to an operator requesting a service for using said service table to select the node (34) and service provider (14) to provide the requested data processing service wherein said service advertising message (Fig. 2A) further includes a rating for



each service, said service table means further including means for establishing, in each entry, a rating field in response to the rating from the service advertising message and said selection means further including means for using the contents of said rating entries in said service table in the selection of the node (34) and service provider (14) to provide the requested service. (Dwg.1/8)tEP 163577 B

A local area network for interconnecting service users (12) and service providers (14), including a plurality of device server units (24) each of which connects to a service user (12) and a plurality of nodes (34) each connected to a service provider (14) and a communications link (16) to effect communications between the nodes and device server units to enable said service users and service providers to communicate, characterised by A, each node (34) including means for periodically transmitting a service advertising message over said communications link to identify the services (54) provided by the service providers connected thereto, and B. **each device server unit** (24) including; i. advertising message receiving means connected to said communications link for receiving said service advertising message; ii, service table means for establishing a service table including a plurality of entries each including a node field which lists said plurality of nodes and a service field which lists services provided by the service providers connected to an identified node in said plurality of nodes; and iii. selection means responsive to an operator requesting a service for using said service table to select the node and service provider to provide the requested service. (26pp)t

Abstract (Equivalent): US 5621734 A

A system for communicating between users connected to a server and service providers connected to a node, comprising:

means in said server for establishing first service sessions between said server and selected ones of said users;

means in said node for establishing second service sessions between said node and selected ones of said service providers; and

means in said server and in said node for supporting a virtual circuit therebetween and for gathering session **messages generated** by said first service sessions or said second service sessions into a single virtual circuit message for transfer through said virtual circuit.

Dwg.1/8

US 5058108 A

The users and providers connect to the communications link by means of interface units each of which may connect to several users or providers. The interface units communicate over the communications link by means of messages. When a user requires the use of a service, the interface unit establishes a virtual circuit between it and the interface unit connected to the service provider and a service session which allows the user and the service provider to communicate over the virtual circuit.

If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits. The session messages are accumulated into single virtual circuit messages that are acknowledged in unison by the receiving interface unit.

USE/ADVANTAGE - Message transfer protocol improvement in LAN enhancing message transfer capability. (24pp)vUS 4975905 A

The users and providers connect to the communications link by means of interface units each of which may connect to several users or providers. The interface units communicate over the communications link using messages. When a user requires the use of a service, the interface unit . establishes a virtual circuit between it and the interface unit connected to the service provider and a service session

which allows the user and the service provider to communicate over the virtual circuit. If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits.

The session messages are accumulated into signal virtual circuit messages that are acknowledged in unison by the receiving interface unit. Each virtual circuit in the unit's interface units includes a timer which reset when a message is transmitted over the virtual circuit and a data waiting flag set whenever data is present to be transmitted over the virtual circuit. The interface units are inhibited for transmitting over a virtual circuit unless the timer has timed out and the data waiting flag is set.

USE - Local area network for interconnecting terminals and other users and data processing systems and other service providers over communications link.

US 4975904 A

The interface units communicate over the communications link by means of messages. When a user requires the use of a service, the interface unit establishes a virtual circuit between it and the interface unit connected to the service provider and a service session which allows the user and the service provider to communicate over the virtual circuit. If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits. The session messages are accumulated into signal virtual circuit messages that are acknowledged in unison by the receiving interface unit.

Each virtual circuit in the user's interface units includes a timer which reset when a message is transmitted over the virtual circuit and a data waiting flag set whenever data is present to be transmitted over the virtual circuit. The interface units are inhibited from transmitting over a virtual circuit unless the timer has timed out and the data waiting flag is set.

USE - Local area network for interconnecting terminals and other users and data processing systems and other service providers over communications link via interface units each of which may connect to several users or providers.

US 4823122 A

When a user requires the use of a service, the interface unit establishes a virtual circuit between it and the interface unit connected to the service provider and a service session which allows the user and the service provider to communicate over the virtual circuit. If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits.

The session messages are accumulated into single virtual circuit messages that are acknowledged in unison by the receiving interface unit. Each virtual circuit in the users' interface units includes a timer which reset when a message is transmitted over the virtual circuit and a data waiting flag set whenever data is present to be transmitted over the virtual circuit. The interface units are inhibited from transmitting over a virtual circuit unless the timer has timed out and the data waiting flag is set.

Title Terms: LOCAL; AREA; NETWORK; DIGITAL; DATA; PROCESS; SYSTEM; JOIN; USER; SOURCE; COMMUNICATE; LINK; INTERFACE; UNIT; CONNECT; USER

Derwent Class: T01; W01

International Patent Class (Main): G06F-013/42; G06F-015/16; H04J-003/00; H04L-005/22; H04L-012/28; H04L-012/40

International Patent Class (Additional): G06F-013/00; H04J-003/02;

H04J-003/26; H04L-011/00; H04L-012/56; H04Q-001/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-C03; T01-J02; W01-A03; W01-A06X; W01-C05B

?

File 348:EUROPEAN PATENTS 1978-2005/Jun W02  
(c) 2005 European Patent Office  
File 349:PCT FULLTEXT 1979-2005/UB=20050616,UT=20050609  
(c) 2005 WIPO/Univentio  
File 324:German Patents Fulltext 1967-200523  
(c) 2005 Univention

Set	Items	Description
S1	69	MULTISERVER?
S2	107349	SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSERVE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER?
S3	214	MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER?
S4	9618	(PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3
S5	7456	(PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3
S6	15804	(NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3
S7	818	(TRIO OR THIRD OR 3RD) (1W)S2:S3
S8	572	(PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3
S9	25056	EMAIL? OR EMESAG? OR ECORRESPOND?
S10	47383	(E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?)
S11	959	CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?)
S12	236198	MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE?
S13	2696873	CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ?
S14	960828	FORMULAT? OR PREPAR??? ? OR PREPARATION
S15	1184139	SOURCE? ? OR AUTHOR? OR ORIGINAT? OR INITIAT?
S16	2132204	PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ?
S17	3377029	EACH OR ANY OR ANYONE OR ALL OR EVERY OR EVERYONE OR BOTH
S18	43929	S9:S12(3N)S13:S16
S19	12872	S17(2W)S1:S3
S20	108	S19(10N)S18
S21	17	S20(20N)S4:S8
S22	1	S1(10N)S18
S23	166	S19(20N)S18
S24	31	S23(20N)S4:S8
S25	32	S21:S22 OR S24
S26	32	IDPAT (sorted in duplicate/non-duplicate order)
S27	32	IDPAT (primary/non-duplicate records only)
S28	7156	S17(5N)S18
S29	0	S1(20N)S28
S30	48	S28(20N)S4:S8
S31	37	S30 NOT S27
S32	37	IDPAT (sorted in duplicate/non-duplicate order)
S33	36	IDPAT (primary/non-duplicate records only)
?		

27/5,K/12 (Item 12 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01183719 \*\*Image available\*\*

**SYSTEM AND METHOD FOR SECURE COMMUNICATION**  
**SYSTEME ET PROCEDE DE COMMUNICATION SECURISEE**

Patent Applicant/Assignee:

PRIVASPHERE GMBH, Weinmannngasse 114, CH-8700 Kusnacht, CH, CH (Residence)  
, CH (Nationality), (For all designated states except: US)

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Legal Representative:

VOGEL Dany (agent), Isler & Pedrazzini AG, Gotthardstrasse 53, Postfach  
6940, CH-8023 Zurich, CH,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2004107687 A1 20041209 (WO 04107687)

Application: WO 2004CH329 20040601 (PCT/WO CH04000329)

Priority Application: WO 2003CH341 20030530

Parent Application/Grant:

Related by Continuation to: WO 2003CH341 20030530 (CIP)

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/58

International Patent Class: H04L-029/06

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9741

**English Abstract**

A system (1) for secure communication comprises a secure electronic messaging server (11) which is accessible by the public and a database (12) for storing data of messaging users. The data comprise the tracking of trust establishing out-of-band verification and the monitoring of the trust relations derived thereof, messaging user-based instructions related to the handling of incoming mails, wherein the instructions comprise information related to an at least one security level chosen by the messaging user. The system (1) comprises means to automatically handle in- and outgoing mails according to these instructions. This system (1) allows transmitting messages privately and securely with minimum prerequisites for its users. The inventive system (1) allows a secure transmitting of messages between a sender (S) and a recipient (R), wherein only one of the two parties is a messaging user.

**French Abstract**

L'invention concerne un systeme (1) de communication securisee comprenant

un serveur de messagerie electronique securise (11) accessible au public, et une base de donnees (12) servant a stocker les donnees des utilisateurs de la messagerie. Les donnees comprennent le suivi de la verification hors bande de la creation de confiance et la surveillance des relations de confiance derivees, des instructions des utilisateurs de la messagerie associees a la gestion des courriers entrants, ces instructions comprenant des informations associees a au moins un niveau de securite selectionne par l'utilisateur de la messagerie. Ce systeme (1) comprend des moyens de gestion automatique des courriers entrants et sortants selon ces instructions. Ce systeme (1) permet la transmission privree et securisee de messages avec un minimum de conditions requises pour ses utilisateurs. Le systeme (1) de l'invention permet une transmission securisee des messages entre un expediteur (S) et un destinataire (R), un des deux participants seulement etant un utilisateur de la messagerie.

Legal Status (Type, Date, Text)

Publication 20041209 A1 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... client side (e.g. equipping  
their customers with security tokens, etc.)

When operating with a **multitude** of **servers**, these servers  
are connected with a virtual private **network**. **Each server**  
will contain the following extra sub module.

- a server collaboration policy manager
- a trust and membership directory
- a **mail originator**
- . a payload redirector
- . optionally a hub server that offers a central policy-,  
trust-, and membership...

?

File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 16  
(c) 2005 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2005/Jun 17  
(c) 2005 ProQuest Info&Learning  
File 98:General Sci Abs/Full-Text 1984-2004/Dec  
(c) 2005 The HW Wilson Co.  
File 112:UBM Industry News 1998-2004/Jan 27  
(c) 2004 United Business Media  
File 141:Readers Guide 1983-2005/Dec  
(c) 2005 The HW Wilson Co  
File 484:Periodical Abs Plustext 1986-2005/Jun W2  
(c) 2005 ProQuest  
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec  
(c) 2005 The HW Wilson Co  
File 608:KR/T Bus.News. 1992-2005/Jun 17  
(c)2005 Knight Ridder/Tribune Bus News  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2005/Jun 17  
(c) 2005 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2005/Jun 17  
(c) 2005 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2005/Jun 17  
(c) 2005 Business Wire.  
File 369:New Scientist 1994-2005/Apr W4  
(c) 2005 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 20:Dialog Global Reporter 1997-2005/Jun 17  
(c) 2005 The Dialog Corp.  
File 624:McGraw-Hill Publications 1985-2005/Jun 16  
(c) 2005 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2005/Jun 16  
(c) 2005 San Jose Mercury News  
File 674:Computer News Fulltext 1989-2005/Jun W2  
(c) 2005 IDG Communications  
File 647:CMP Computer Fulltext 1988-2005/May W5  
(c) 2005 CMP Media, LLC

Set	Items	Description
S1	1008	MULTISERVER?
S2	1037065	SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSERVE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER?
S3	1191	MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER?
S4	30421	(PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3
S5	18714	(PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3
S6	60262	(NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3
S7	750	(TRIO OR THIRD OR 3RD) (1W)S2:S3
S8	4416	(PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3
S9	843868	EMAIL? OR EMESSAG? OR ECORRESPOND?
S10	2083835	(E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?)
S11	842	CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?)

S12 4325214 MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE?  
 S13 13164794 CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT?  
 OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ?  
 S14 4141600 FORMULAT? OR PREPAR??? ? OR PREPARATION  
 S15 11355618 SOURCE? ? OR AUTHOR?? ? OR AUTHORIZING OR ORIGINAT? OR INITI-  
 AT?  
 S16 7825489 PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ?  
 S17 16488557 EACH OR ANY OR ANYONE  
 S18 170315 S9:S12(3N)S13:S16  
 S19 18969 S17(2W)S1:S3  
 S20 28279 (ALL OR EVERY OR EVERYONE OR BOTH) (2W)S1:S3  
 S21 28 S19:S20(10N)S18  
 S22 1 S1(S)S18  
 S23 134 S19:S20(S)S18  
 S24 33 S23(S)S4:S8  
 S25 2 S21(S)S4:S8  
 S26 9638 S18(5N) (ALL OR EVERY OR EVERYONE OR BOTH OR S17)  
 S27 0 S1(S)S26  
 S28 42 S26(S)S4:S8  
 S29 177 S21:S25 OR S28  
 S30 84 S29/2001:2005  
 S31 93 S29 NOT S30  
 S32 77 RD (unique items)

32/3,K/35 (Item 1 from file: 20)  
 DIALOG(R)File 20:Dialog Global Reporter  
 (c) 2005 The Dialog Corp. All rts. reserv.

12875665 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Digital Impact Unveils Impact 4.0; Web-based eMarketing Platform Gives  
 Clients Campaign Automation and Delivery Throughout the Entire Customer  
 Lifecycle**  
 BUSINESS WIRE  
 September 18, 2000  
 JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
 WORD COUNT: 844

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... to massively scale to meet the needs of each unique eMarketing  
 campaign. The MPE tracks **each** unique **message** that it has **created** then  
 records and organizes customer actions by tracking impressions, clicks and  
 email responses. This information...



File 9:Business & Industry(R) Jul/1994-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 13:BAMP 2005/Jun W1  
 (c) 2005 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 47:Gale Group Magazine DB(TM) 1959-2005/Jun 17  
 (c) 2005 The Gale group  
 File 88:Gale Group Business A.R.T.S. 1976-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2005/Jun 17  
 (c)2005 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 570:Gale Group MARS(R) 1984-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 621:Gale Group New Prod.Annou. (R) 1985-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 17  
 (c) 2005 The Gale Group  
 File 649:Gale Group Newswire ASAP(TM) 2005/Jun 08  
 (c) 2005 The Gale Group

Set	Items	Description
S1	2356	MULTISERVER?
S2	1855320	SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER?
S3	2624	MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER?
S4	58385	(PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3
S5	35498	(PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3
S6	117573	(NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3
S7	1477	(TRIO OR THIRD OR 3RD) (1W)S2:S3
S8	9991	(PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3
S9	812213	EMAIL? OR EMESSAG? OR ECORRESPOND?
S10	2081811	(E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?)
S11	1163	CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?)
S12	4060727	MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE?
S13	13311528	CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ?
S14	3629268	FORMULAT? OR PREPAR??? ? OR PREPARATION
S15	8337802	SOURCE? ? OR AUTHOR?? ? OR AUTHORIZING OR ORIGINAT? OR INITI- AT?
S16	8871244	PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ?
S17	31216996	EACH OR ANY OR ANYONE
S18	154195	S9:S12(3N)S13:S16
S19	38724	S17(2W)S1:S3
S20	54698	(ALL OR EVERY OR EVERYONE OR BOTH) (2W)S1:S3
S21	61	S19:S20(10N)S18
S22	0	S1(10N)S18
S23	201	S19:S20(S)S18
S24	38	S23(S)S4:S8
S25	0	S21(S)S4:S8

S26 12712 S18(5N) (ALL OR EVERY OR EVERYONE OR BOTH OR S17)  
 S27 3 S1(S)S26  
 S28 84 S26(S)S4:S8  
 S29 184 S21 OR S24 OR S27:S28  
 S30 43 S29/2001:2005  
 S31 141 S29 NOT S30  
 S32 63 RD (unique items)

32/3,K/6 (Item 3 from file: 16)  
 DIALOG(R)File 16:Gale Group PROMT(R)  
 (c) 2005 The Gale Group. All rts. reserv.

07812637 Supplier Number: 65270042 (USE FORMAT 7 FOR FULLTEXT)  
**Digital Impact Unveils Impact 4.0; Web-based eMarketing Platform Gives  
 Clients Campaign Automation and Delivery Throughout the Entire Customer  
 Lifecycle.**

Business Wire, p0230  
 Sept 18, 2000  
 Language: English Record Type: Fulltext  
 Document Type: Newswire; Trade  
 Word Count: 840

... deliver and track unique, personalized eMarketing messages. The MPE architecture is built upon a distributed **network** of **servers** designed to massively scale to meet the needs of each unique eMarketing campaign. The MPE tracks **each** unique **message** that it has **created** then records and organizes customer actions by tracking impressions, clicks and email responses. This information...

32/3,K/39 (Item 1 from file: 88)  
 DIALOG(R)File 88:Gale Group Business A.R.T.S.  
 (c) 2005 The Gale Group. All rts. reserv.

02067046 SUPPLIER NUMBER: 06282978  
**E-mail arrives. ( Third-party E-mail products help manage connectivity  
 applications)**  
 King, Steven S.  
 PC Tech Journal, v6, n4, p106(12)  
 April, 1988  
 ISSN: 0738-0194 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
 WORD COUNT: 5669 LINE COUNT: 00542

... the Trailblazer from Telebit.  
 If upgrading modems is not enough of a performance boost, an **additional** mail **server** can be added. Many E-mail products, including those to be reviewed in part 2 of this article, support more than one mail server per post office. **Two** mail **servers** can monitor the post office's **message** base and **initiate** calls independently. An effective way to use **two** mail **servers** on a multiple post office internetwork is to divide the system in half by mail volume, with **each** mail **server** servicing one-half of the system and routing mail destined for the other half to...  
 ?

File 6:NTIS 1964-2005/Jun W1  
(c) 2005 NTIS, Intl Cpyrght All Rights Res  
File 2:INSPEC 1969-2005/Jun W1  
(c) 2005 Institution of Electrical Engineers  
File 8:EI Compendex(R) 1970-2005/Jun W1  
(c) 2005 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W2  
(c) 2005 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2005/May  
(c) 2005 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2005/Jun W2  
(c) 2005 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2005/Apr W4  
(c)2005 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2005/May W2  
(c) 2005 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May  
(c) 2005 The HW Wilson Co.  
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/Jun 17  
(c) 2005 The Gale Group  
File 144:Pascal 1973-2005/Jun W1  
(c) 2005 INIST/CNRS  
File 256:TecInfoSource 82-2005/May  
(c) 2005 Info.Sources Inc  
File 266:FEDRIP 2005/Jun  
Comp & dist by NTIS, Intl Copyright All Rights Res  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 483:Newspaper Abs Daily 1986-2005/Jun 07  
(c) 2005 ProQuest Info&Learning  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning

Set	Items	Description
S1	2422	MULTISERVER?
S2	282745	SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSE-
		R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER?
S3	128	MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER?
S4	5755	(PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI-
		TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S-
		2:S3
S5	3512	(PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? -
		OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3
S6	13839	(NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH-
		REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3
S7	77	(TRIO OR THIRD OR 3RD) (1W)S2:S3
S8	1503	(PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3
S9	21557	EMAIL? OR EMESSAG? OR ERESPOND?
S10	99406	(E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR-
		RESPOND?)
S11	761	CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??-
		?? ? OR MESSAG? OR CORRESPOND?)
S12	579642	MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE?
S13	9940066	CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT?
		OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ?
S14	3080670	FORMULAT? OR PREPAR??? ? OR PREPARATION
S15	9125007	SOURCE? ? OR AUTHOR?? ? OR AUTHORIZING OR ORIGINAT? OR INITI-
		AT?
S16	5473535	PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ?

S17 5161833 EACH OR ANY OR ANYONE  
 S18 18953 S9:S12(3N)S13:S16  
 S19 2177 S17(2W)S1:S3  
 S20 3019 (ALL OR EVERY OR EVERYONE OR BOTH) (2W)S1:S3  
 S21 5 S19:S20(10N)S18  
 S22 12 S1 AND S18  
 S23 26 S19:S20 AND S18  
 S24 13 S23 AND S4:S8  
 S25 4 S21 AND S4:S8  
 S26 1252 S18(5N) (ALL OR EVERY OR EVERYONE OR BOTH OR S17)  
 S27 1 S1 AND S26  
 S28 9 S26 AND S4:S8  
 S29 43 S21:S25 OR S27:S28  
 S30 13 S29/2001:2005  
 S31 30 S29 NOT S30  
 S32 22 RD (unique items)

32/7/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6002132 INSPEC Abstract Number: B9810-6210L-011, C9810-6150N-008

**Title: Reliable multicast group communication in networked distributed systems**

Author(s): Uminski, P.W.

Author Affiliation: Politech. Gdanskiej, Poland

Journal: Zeszyty Naukowe Politechniki Slaskiej, Seria: Informatyka  
no.32 p.71-93

Publisher: Wydawnictwo Politech. Slaskiej,

Publication Date: 1997 Country of Publication: Poland

CODEN: ZNPIET ISSN: 0208-7286

SICI: 0208-7286(1997)32L:71:RMGC;1-E

Material Identity Number: H071-98006

Language: Polish Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The client server programming model is a very popular model for constructing large scale distributed systems. This model allows us to specify and fulfil different reliability requirements for different parts of the system. The new idea of a highly reliable service is presented. This service, called a **group server**, is performed on several different nodes at the same time. Clients send messages to the server using reliable multicast protocol. The messages are addressed to the group rather than to the particular node. Due to the use of this protocol all nodes in the group can receive and **generate** the same **messages**. Therefore, **all** results obtained by **all** replicas should be the same-and a failure of one of the replicas does not lead to the failure of the whole service. We create a new multicast protocol, GREP (Group Reliable Protocol) to be used to access our **group server**. This protocol allows clients to send a message to the group and guarantees that all members of the group will receive the correct message. It also generates a common response from the group, based on results obtained from each member of the **group server**. GREP is a token ring based protocol, where the token is used to synchronise all members of the group. This protocol is a multilevel protocol; different subprotocols are responsible for passing token and group synchronisation, receiving messages, voting and sending messages, and detecting and diagnosing faulty nodes. The node, which is producing results differing from the results of the other nodes is diagnosed as faulty and removed from the group until a successful recovery action is performed. (9 Refs)

Subfile: B C

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Set	Items	Description
S1	3455	AU=SMITH S?
S2	57528	(E OR ELEC OR ELECTRONI) (1W) (MAIL???? ? OR MESSAG? OR CORR-ESPOND?)
S3	26654	EMAIL? OR EMESSAG? OR ECORRESPOND?
S4	481	S2:S3 (5N) (VOLUME? ? OR MASS)
S5	1	S1 AND S4

5/9/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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016662000 \*\*Image available\*\*  
 WPI Acc No: 2004-820719/200481  
 Related WPI Acc No: 2002-303351  
 XRPX Acc No: N04-647961

**Electronic-mail messages transmission method in electronic telecommunication system, involves transmitting separate subsets of mail addresses to mail transfer agents which are geographically distant from subset transmission source**

Patent Assignee: KALASH J T (KALA-I); RAYNER D P (RAYN-I); SCHMIDT K A (SCHM-I); SMITH S (SMIT-I); ZACH R J (ZACH-I)

Inventor: KALASH J T; RAYNER D P; SCHMIDT K A; **SMITH S** ; ZACH R J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040221011	A1	20041104	US 2000196223	P	20000410	200481 B
			US 2001829524	A	20010409	
			US 2003389419	A	20030314	

Priority Applications (No Type Date): US 2000196223 P 20000410; US 2001829524 A 20010409; US 2003389419 A 20030314

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040221011	A1	28	G06F-015/16	Provisional application US 2000196223

CIP of application US 2001829524

Abstract (Basic): US 20040221011 A1

NOVELTY - The electronic-mail (e-mail) addresses are provided and the separate subsets of e-mail addresses are transmitted to mail transfer agents (MTA) which are geographically distant from source of subset transmission. The e-mail message with MTA's are transmitted to addresses contained in the subsets.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) electronic-mail messages transmitting system;
- (2) machine-readable recorded medium for storing electronic-mail messages transmission program; and
- (3) computer data signal.

USE - For transmitting electronic-mail messages generated in personal computer (PC) through internet, in electronic telecommunication system.

ADVANTAGE - The high- volume e - mail messages are processed and transmitted to large number of recipients, easily and efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the e-mail messages transmission method.

pp; 28 DwgNo 3/12

Title Terms: ELECTRONIC; MAIL; MESSAGE; TRANSMISSION; METHOD; ELECTRONIC; TELECOMMUNICATION; SYSTEM; TRANSMIT; SEPARATE; SUBSET; MAIL; ADDRESS; MAIL; TRANSFER; AGENT; GEOGRAPHICAL; DISTANCE; SUBSET; TRANSMISSION; SOURCE

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-N01C; T01-N02A1; T01-S03; W01-A06F2

PLUS Search Results for S/N 09829524, Searched June 20, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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L3	431	(SMITH near steven).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/17 11:18
L4	3	(SMITH near steven).in. and (high near volume).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/17 11:18
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